

1 March 1967

To: Bruce B.  
(cc: Dave W., Bob B.)

OSA -16

4/1

Subject: Progress Report  
Contract No. DC-1501  
16 January 67 thru 15 February 67

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## 1. R&amp;D Effort

1.1 Thermal Balance Analysis  
PPA vs. Cockpit Environment

No further activity has been accomplished during this reporting period. Information requested from [redacted]

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1.2 Improved Communications Cord

A DCN will be forwarded to the field covering this change on 3 March 67.

1.3 Improved LH Valve, Helmet O<sub>2</sub> System

Six (6) each valves have been tested extensively and proved to be satisfactory. Two (2) each units have been returned to the field. The GN S970-5-6, 1055 and 1056 PPA Helmets which were delivered have these new valves installed. The GN S970-1055-2 and 1056-2 PPA Helmets will also incorporate this valve.

1.4 Flotation Inflation Valve/Oral Inflation Valve Interlock

This item has been dropped per direction of Bruce B. and no further work will be accomplished.

1.5 Supplemental Thermal Protection

The helmet with the oxygen constant flow valve was shipped to the field on 2 December 66. No report has been received on this item to date.

1.6 Visor Latch, Positive Lock

The latch was installed on the 5-2 helmet and present the meeting held on 15 February 67 [redacted] Tb was accepted for further evaluation.

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1.7 Auxiliary Flotation Gear

The 5-4 PPA which incorporated the relocation of the CO<sub>2</sub> inflator valve on the suit, water drainage panels in the legs and pockets and the auxiliary flotation collar was delivered to [ ] on 15 February 67 and pool demonstrated by Bruce B.

The article is to be returned to the factory to have the automatic inflator installed on the auxiliary collar. Also, the volume of the bladder will be reduced in those areas where there is interference with the parachute canopy releases. The volume at the back of the neck will be increased for greater support in the water. The lanyard knob will be changed to the standard article.

1.8 Increase of Suit Flotation

It is expected that a prototype garment will be completed for testing by 15 March 67.

1.9 Manual Access to CO<sub>2</sub> Valves

The relocation of the CO<sub>2</sub> inflator valve was accomplished on the 5-4 PPA when delivered to [ ] on 15 February.

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Cockpit evaluations were made and it was decided to replace the lanyard ball with the standard knob due to possible interference between it and the seat belt. A two (2) psi relief valve will also be installed in the flotation bladder for protection against an accidental inflation during flight.

This work will be accomplished when the PPA is returned to the factory.

1.10 Life Raft

A prototype open end boarding raft with a low center of gravity was submitted and pool evaluated at [ ] on 16 February 67 by Bruce B. This raft also had an orally inflatable floor for insulation against cold water.

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The raft design was well received by [ ] personnel present and authorization to proceed with another unit testing was given and will incorporate less bulk to

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1.10 Life Raft (cont'd)

the packaging requirements for the seat kit.

It is expected that this will be completed for testing before 15 March 67.

1.11 Study of Helmet Shell Protective Features

A report will be submitted on this item before 15 March 67.

1.12 Improved Water Drainage from Coverall Legs and Pockets

The modification of the coveralls in the field to provide drainage panels will be done at the factory per direction of Bruce B.

1.13 Feasibility Study of Heating Gloves During Parachute Descent

Authorization to proceed with a prototype pair of gloves has been received.

It is expected that a glove bladder with heating element will be completed for testing by 30 March 67.

1.14 Improved Visor Up-Lock

A Service Bulletin will be sent to the field covering this item by 15 March 67.

1.15 Super Spacer Undergarment

This item has been dropped per directive received from Bruce B.

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ITEMS REMAINING TO BE DELIVERED 15 Feb 1967  
Approved For Release 2003/03/10 : CIA-RDP75B00285R000300160023-7  
New Equipment and Spare Parts  
Contract No. DC-CT-1503

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<u>Purchase Request No.</u>	<u>Customer</u>	<u>Description</u>	<u>Estimated Delivery Date</u>
PR GN-67-07-25-005	1	6 pr GN 10434G01 Ear Cup Assy	20 February 67
PR-GN-67-08-23-009	Common	60 ea GN A2859 CO <sub>2</sub> Inflator	10 March 67
PR-GN-67-11-16-031	1	For GN ACS1438 Coverall, S/N 1045-4: 1 ea GN ACS1225, 1226, 2216, 2217 Hose Assy 1 ea GN A2859 CO <sub>2</sub> Inflator	20 March 67 10 March 67
PR-GN-67-10-04-020	1	For S/N 1055: 1 ea GN S970 PPA (#2) 1 ea GN A2859 CO <sub>2</sub> Inflator for #1 GN S970 PPA For S/N 1056: 1 ea GN S970 PPA (#2) For #1 GN S970 PPA: 1 ea GN ACS1438 Coverall 1 ea GN ACS2212 and 2213 Hose Assy 1 ea GN ACS2200-1 Top Pad, Oval, Helmet 1 ea GN ACS2201-1 Insert, Top Pad, Oval	15 March 67 10 March 67 31 March 67 Held til #2 Approved 28 April 67 24 February 67 24 February 67
PR-GN-67-10-17-025	1	For GN S970 PPA, S/N 5: 1 ea GN ACS1225, 1226, 2212, 2213, 2216, and 2217 Hose Assy	28 April 67
PR-GN-67-12-08-040	2 1	16 pkg GN P3004 Tubing, Heat Shrinkable For GN ACS1617-3 Flotation Garment, S/N 17: 1 ea GN A2859 CO <sub>2</sub> Inflator 1 ea GN P8239 CO <sub>2</sub> Cylinder	3 March 67 10 March 67 10 March 67
PR-GN-67-11-30-038	2	1 ea GN 10425G16 Shell, F/P Glove	24 February 67
PR-GN-67-12-22-042	1	For GN 10611G01 Cover, Ext., S/N 1046-3: 1 ea GN A2859 CO <sub>2</sub> Inflator 1 ea GN P8239 CO <sub>2</sub> Cylinder	10 March 67 10 March 67

ITEMS REMAINING TO BE DELIVERED 15 February 1967  
Approved For Release 2003/03/10 : CIA-RDP75B00285R000300160023-7  
New Equipment and Spare Parts  
Contract No. DC-CT-1503

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<u>Purchase Request No.</u>	<u>Customer</u>	<u>Description</u>	<u>Estimated Delivery Date</u>
PR-GN-67-01-12-043	2	26 pt GN P254 Toluol	17 March 67
PR-GN-67-01-25-044	2	50 ea GN P-B7047 Socket 8 ea GN ACS2266-2 Spring, Med. -Helmet Counterbalance 3 ea GN 10425G06 Shell, F/P Glove 5 ea GN 10425G16 Shell, F/P Glove	17 March 67 17 March 67 17 March 67 Part 27 Feb-Bal. 3 Mar 67 Part 27 Feb-Bal. 3 Mar 67
To Be Advised	2	1 ea GN S985-3 Kit, Pressure Sealing Closure Replacement	20 February 67
PR-GN-67-02-01-046	2	17 ea GN P-B3895A Needle, Bleed 55 ea GN P-A3268 Plunger, Valve 15 ea GN P-A4230 Disc, Check Valve 35 ea GN P-B3266 Check Valve, Bleed 12 ea GN P-B3896A Insert, Needle	13 March 67 13 March 67 8 March 67 17 March 67 17 March 67
To Be Advised	2	1 ea GN A2345 Coverall Less GN A2456 Con- troller Assy 1 ea GN A2347 Cover, Exterior with Flotation Garment and Torso Harness	17 March 67 17 March 67

ITEMS REMAINING TO BE DELIVERED Approved For Release 2003/03/10 : CIA-RDP75B00285R000300160023-7  
Repair and Modification  
Contract No. DC-TM-1504

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Estimated Delivery Da.

<u>Work Order No.</u>	<u>Customer</u>	<u>Description</u>	<u>STAT</u>	<u>Estimated Delivery Da.</u>
To be advised	1	To be modified to GN A2885 configuration 1 ea GN ACS-H880N Helmet, S/N 1054		
W/O-GN-67-10-25-008	1	For GN ACS1438 Coverall, S/N 1050-4 1 ea GN A2859 CO <sub>2</sub> Inflator		10 March 67
W/O-GN-67-12-13-013	1	Receiving & Shipping Record Purposes Only 6 Items received and to be replaced (For GN S970 PPA, S/N 1055 and 1056, PR-GN-67-10-04-020)		Upon receipt from supplier- 20 April 67
W/O-GN-67-01-19-016	1	Receiving & Shipping Record Purposes Only 1 ea GN ACS1621 Helmet 1 ea GN A2840 Counterbalance Spring Assy 1 ea GN A2635 PPG Visor #5		30 April 67 30 April 67 To be determined
W/O-GN-67-02-10-017	2	To be repaired 1 ea GN A2345-71 Coverall, Ser. No. 3036		3 March 67